

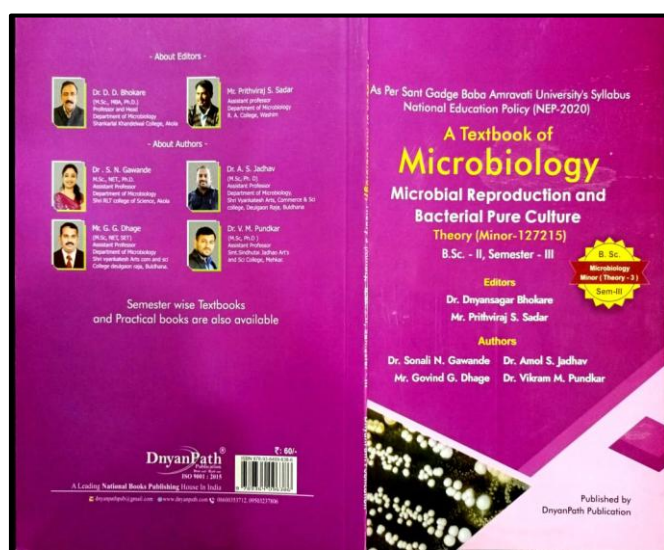
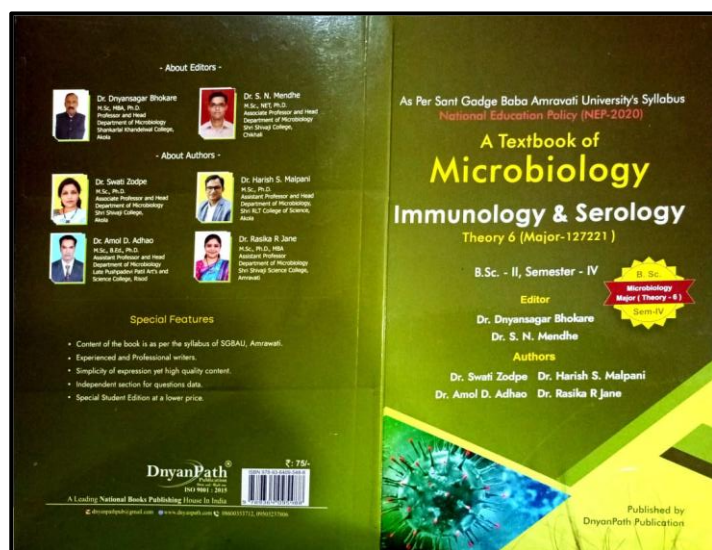
Shri RLT College of Science, Akola
Department of Microbiology
Departmental Report
(2025-26)

The department of Microbiology of Shri R.L.T. College of Science, Akola always has a legacy to provide quality education, skill enhancement and experiential learning in the field of microbiological science. The department emphasizes conceptual understanding, laboratory skills, research aptitude, innovation, critical thinking, and the application of microbiology to health, environment, agriculture, food, industry as well as society. Based on principle of NEP 2020, education is fundamental for achieving complete human potential, developing an equitable society and promoting the national development so the department always look forward towards the fundamental development of student by enhancing practical skills, experiential learning, academic collaborations and nature conservation.

During the academic year 2025-26, the department undertook various academic, laboratory, research, co-curricular, and extension activities. The activities were planned and conducted in accordance with the academic calendar and the objectives of the department. Continuous assessment of students was carried out through internal examinations, assignments, practical examinations, seminars, and other academic activities.

By providing quality culture, department of Microbiology offers education at undergraduate, postgraduate and research level. The department has three laboratories namely UG, PG and Research laboratory. This academic year, the total students enrolled in PG department were 37 and in Undergraduate course were 288. Recognizing that true education extends beyond the confines of the classroom, our vibrant student and faculty community has actively engaged in a multitude of co-curricular and extracurricular pursuits.

In the academic year of 2025-26, two textbooks were published in this session by Dr. H. S. Malpani and Dr. S. N. Gawande. As per the NEP syllabus of B. Sc. II Semester III (Microbial reproduction and Bacterial Pure culture) and Semester IV (Immunology and Serology) of SGBAU, Amravati.



Faculty members of the department actively participated in research and academic activities during the year. They always contributed through research publications, conference presentations, seminars, workshops, faculty development programs, and student research projects.

Students were encouraged to develop scientific thinking and research aptitude through project-based learning, literature review, presentations, and participation in scientific events. In this session, department of Microbiology contributed to research by publishing total 3 research papers. All the teaching staff of Department of Microbiology gets actively participated in various activities of the department and have presented their research work in various conferences. This year, total 19 PG students completed their project work under the guidance of Dr. H. S. Malpani and Dr. S. N. Gawande.

Dr. H. S. Malpani, Head of the Department of Microbiology, has demonstrated exceptional academic leadership and scholarly dedication through a series of high-impact engagements. Recently recognized and approved as a Ph.D. research supervisor in Microbiology and Science & Technology, he has actively disseminated knowledge across premier academic and community platforms. His invited lectures include addressing modern pedagogical frontiers with the talk *"Empowering classrooms: Modern Applications of AI in education"* at a national conference hosted by Takshashila Mahavidyalaya, Amravati, on December 22, 2025, and delivering an address on *"Microbes and their role in sustainable development"* as a distinguished resource person for the Dr. K. S. Deshpande Memorial Lecture Series at N. E. S. Science College, Nanded. Complementing these was his invited session, *"Microorganisms: Unseen pillars of Nature conservation,"* conducted on February 7, 2026, at the NSS camp organized by Shri Shivaji Arts, Commerce and Science College, Akola, in Patsul. Beyond speaking engagements, Dr. Malpani served as an evaluative jury member for research presentations at the National Conference on *Frontiers in Multidisciplinary Science and Technology* on February 2, 2026, at Shri Shivaji College, Akola, and actively participated in the high-level *16th India Probiotic Symposium* at AIIMS, New Delhi, in late March 2026. A committed researcher and science communicator, he regularly publishes peer-reviewed research, presents at conferences, and champions broader societal development by authoring informative, public-oriented science articles in newspapers and regional media.



Dr. S. N. Gawande, Assistant Professor, department of Microbiology always actively participated in research and academic contributing through research publications, conferences, seminars, other programs and student research projects. In this session, she published total 3 research papers. Dr. Gawande contributed in blood grouping camp of the department in NSS activity with her passion and excellency.

As a part of curriculum, experiential learning and filling gaps between industry and academia, the department of microbiology offers 120 hours internship program for PG. student. This year internship program was organised at SNAPP Hormocare Diagnostic Laboratory Pvt. Ltd. Akola which inculcate various advance laboratory techniques in VITEK 2 compact with their use, maintenance and other pathology procedures. All the students of B. Sc III and M. Sc. II students have enthusiastically completed internship program.



EVENTS ORGANIZED BY THE DEPARTMENT

1. EDUCATIONAL TOUR TO LONAR CRATER AND WILD LIFE SANCTUARY

As a part of the curriculum, the students of B. Sc. Part II should attend an educational tour. Department of Microbiology, Shri R.L.T College of Science, Akola conducted an educational tour and monsoon trek for the students of B. Sc. Part II (Major Microbiology) to Lonar Crater and Wild Life Sanctuary 18th August, 2025. Total 40 students participated in the visit along with 6 staff members. Dr. R. D. Chandrawanshi (Principal, Shri R.L.T College of Science, Akola) guided the students about the tour and explained the importance of the visit along with the leanings that can be brought back. Dr. H. S. Malpani and Dr. S. N. Gawande instructed the students about their safety in the entire visit. The tour began from the campus sharp at 07:00 am with comfort and discipline. B.Sc. II Microbiology students, guided by faculty and staff, explored the unique microbial habitats of the crater, gaining practical insights beyond classroom learning. The trip, which began at 7:00 AM and concluded safely at 8:30 PM, was both adventurous and educational, made memorable through the efforts of Dr. H. S. Malpani, Dr. S. N. Gawande, and Mr. H. A. Umbarkar. Mr Amol Sawant from Nisargakatta and Mr. Sachin Kapure from Aamhi Lonarkar shared valuable information with the students.

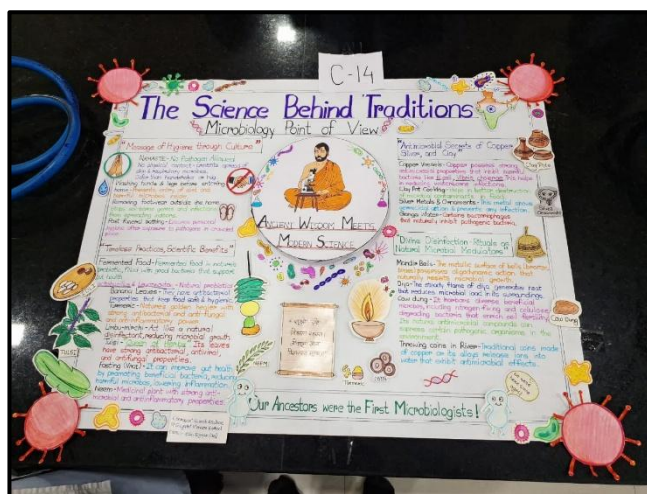
importance of fermented food in daily life. Dr. S. N. Gawande (Assistant Professor, Department of Microbiology) acknowledged the talent of students.



3. POSTER PRESENTSTION COMPETITION

On the occasion of International Microorganism Day, the Department of Microbiology, Shri RLT College of Science, Akola organized a Poster Presentation Competition that witnessed enthusiastic participation from students. Around 110 students showcased their posters on diverse themes such as Sustainable Development, Contribution of Indian Scientists in Microbiology, Gut Microbiota, Science Behind Indian Traditions, and many more. The competition was inaugurated by Dr. R. D. Chandrwanshi, who appreciated the department's efforts for the all-round development of students. Dr. Rahatgoankar, IQAC Coordinator, also congratulated the staff and students for successfully organizing the event. Esteemed visitors including Prof. Dr. Deohate, Prof. Dr. Nagrale, and Mr. Zyte graced the occasion and motivated the participants. On this occasion, Dr. Harish Malpani highlighted the importance of celebrating

International Microorganism Day and shared the remarkable contributions of Antony Van Leeuwenhoek, regarded as the Father of Microbiology, for his pioneering work in microbial discoveries. The posters were judged by Dr. Sudhir Kohchale, and all the winners were awarded special trophies in recognition of their achievements. Faculty members including Dr. Harish Malpani, Dr. Sonali Gawande, Ms. Deepa Goyanka, Mr. Sandeep Toshniwal, along with the entire department staff, worked collectively to ensure the success of the event. The competition not only highlighted the importance of microorganisms in human life and sustainability but also provided a platform for students to express their scientific ideas creatively.



4. BLOOD GROUPING AND BLOOD DONATION:

On the Memorial Day of late Principal M.G. Joshi, under the guidance of Dr. R. D. Chandrawanshi, Principal, Shri R. L. T. College of Science, Akola, the department of Microbiology and Biochemistry organized a blood grouping camp on 24th December 2025. Total 60 beneficiaries profited from this camp. Adv. Motisinghji Mohta (President, B.G.E Society, Akola), Dr. Pavanji Maheshwari (Hon. Secretary), Dr. R. D. Chandrawanshi (Principal, Shri R.L.T College of Science, Akola) and other members of the B. G. E. Society congratulated the organizing committee for conducting the blood grouping and blood donation camp. The faculty members of Biochemistry & Microbiology have participated and conducted the blood grouping camp, which was the one of the best practices of department of Microbiology.



5. BLOOD GROUP TESTING CAMP:

On 19th February 2025, blood group testing camp was organised by the department of Microbiology in the NSS camp held by Shri. R. L. T. College of Science, Akola at Apoti village, District Akola. Blood grouping of the Zilla Parishad School students was done by the staff members of department of Microbiology and the students of NSS camp were volunteered in the camp. Total 80 students benefited from this camp.



6. POSTER PRESENTATION COMPETITION:

The Department of Microbiology & Biochemistry, Shri R. L. T. College of Science, Akola celebrated the National Science Day on 28th February 2026. The department of Microbiology & Biochemistry hosted a thrilling *Poster Presentation Competition* under the theme "Human Defence Network: Integrating Nutrition and Immunity"—sparking creativity, critical thinking & scientific spirit! The event was chaired and inaugurated by Dr. R. D. Chandrawanshi, Principal with Dr. R. L. Rahatgaonkar, Dr. P. T. Agrawal & Dr. Rashmi Joshi as the chief guest. On this occasion Dr. R. D. Chandrawanshi explained the importance of science and innovation in recent developments. Inspiring speech was given by Dr. H. S. Malpani (HOD Microbiology). All the jury members judged the competition whole heartedly and praised the students for their active participation and congratulated the department for such innovative and inspiring event. Dr. S. N. Gawande congratulated the students for their enthusiasm and motivated them. All the guests quickly evaluated the posters through Gallery walk along with expert judging by Dr. Rashmi Joshi. Total 207 students* (UG/PG Microbiology & Biochemistry) presented ~90 posters in groups of 2-3. Winners of the competition were awarded with appreciation certificate and memento from the Department of Microbiology and Biochemistry.



AVISHKAR RESEARCH CONVENTION:

This year there was a proud moment for the Department of Microbiology as four students from the Department of Microbiology have achieved outstanding success at the District Level Avishkar 2025 competition and have been selected for the University Level round.

Ms. Namrata Moraskar (UG, MP)

Mr. Yash Sarap (PG, AAH)

Ms. Pooja Bais (PG, HFA)

Mr. Saurabh Gaikwad (PG, E&T)



BEST STUDENT AWARD:

Every year Microbiologist's Society India bestows 'Best Student Award' to one student each from UG and PG. This year, on 15th March 2024, Ms. Disha Kawana (UG) and Ms. Chaitali Lanjudkar (PG) bagged the award from Shri R.L.T College of Science, Akola which is been awarded by Dr. Rajesh Chandrawanshi, Principal, Shri R.L.T. College, Akola).



MERITORIOUS STUDENTS:

Continuing meritorious academic excellence, in the academic year 2025-26, total 2 merits from department of Microbiology were there. Mr. Jaypal Yadav secured 2nd Merit and Ms. Revati Lahane secured 4th Merit positions in M. Sc. Microbiology merit list of SGBAU, Amravati.



7) Master of Science (Microbiology)

1	23EU110137	Shubhangi Uddhao Gadekar	9.37	1	P.G.T.D. of Microbiology, Sant Gadge Baba Amravati University, Amravati
2	23EU110048	Jaypal Anil Rathod	9.35	2	Shri Radhakisan Laxminarayan Toshniwal Science College, Akola
3	23EU110034	Prajakta Chandrashekhur Yaduvanshi	9.26	3	Shri Shivaji Arts, Commerce and Science College, Akola
4	23EU110056	Revati Pankaj Lahane	9.23	4	Shri Radhakisan Laxminarayan Toshniwal Science College, Akola
5	23EU110122	Krishna Brijmohan Chandak	9.22	5	P.G.T.D. of Microbiology, Sant Gadge Baba Amravati University, Amravati

8) Master of Science (Environmental Science)

1	23EQ110001	Kalyani Prakash Chaware	9.13	1	Shri Shivaji Science College, Amravati
2	23EQ110002	Nikita Pramod Jengathe	8.51	2	Shri Shivaji Science College, Amravati
3	23EQ110014	Arpita Vijay Chavhan	8.10	3	Arts, Science & Commerce College, Chikhaldara, Dist. Amravati

Dr. Harish S. Malpani
Asst. Professor & Head
Department of Microbiology